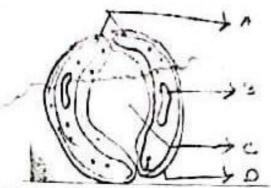
R

COMMON FIRST MID-TERM TEST - 2023

٠	Standard X	Reg No
	SCIENCE	
Time: 3.00 hrs	Part - I	Marks: 75
I. Choose the correct answer:	00700000	12 x 1 = 12
 Newton's III law is applicable 		
a) for a body is at rest	b) for a body i	n motion
c) both (a) & (b) .		dies with equal masses
The unit of 'g' is ms⁻². It can be a	ilso expressed as	25
a) cms ⁻¹ b) NKg ⁻¹	c) Nm ² Kg ⁻¹	d) cm ² s ⁻²
The eye defect 'Presbyopia' can	be corrected by	SE SECTION SEC
 a) convex lens b) concave 	4	rror d) Bifocal lenses
Which of the following has the s		1945
a) 6.023 x 10 ²³ atoms of He	b) 1 atom of	
c) 2 g of He	d) 1 mole ato	oms of He
5. In the nucleus of 20 Ca40 there are	0	
-a) 20 protons and 40 neutrons		s and 20 neutrons
c) 20 protons and 40 electrons	d) 40 proton	s and 20 electrons
Chemical formula of rust is		
a) FeO. x H ₂ O b) FeO _{4.1}		H ₂ O d) FeO
Which is formed during anaero		T
a) carbohydrate b) Ethyl a	cohol c) Acetyl Co	oA d) pyruvate
Glycolysis takes place in		arconnector to the second of the second of
a) cytoplasm b) chlorop		matrix d) stomata
In leech locomotion is performed	ed by	
 a) Anterior sucker 	b) Parapod	ia
c) Setae .	d) Contract	tion and relaxation of muscle:
10. Root hairs are		
a) cortical cell	b) projection	on of epidermal cell
c) unicellular	d) both (b)	and (c)
11. Bipolar neurons are found in		17
a) retina of eye	b) cerebra	cortex
c) embryo	d) respirat	ory epithelium
12. 'Heart of heart' is called		
a) SA node b) AV no	de c) Purkinj	e fibres d) Bundle of His
	Part - II	
II. Answer any 7 questions. (Q		7×2
13. Define moment of a couple.	intoine is compaison,	,, ,,,,
14. Draw a ray diagram to show	the image formed by	a convey lone when the chi
	the image formed by	a contex ions when the obje
placed between F and 2F.		
15. Define : Atomicity		
 16. State two conditions necessar 		261
17. Write a short notes on meso		
19 Write the dental formula of ra	hhit	

19. Identify the parts A.B.C and D in the given figure.

X Science



20 Match the following:

- Nissil's granules
- Forebrain ii) Hypothalamus Peripheral nervous system
- iii) Cerebellum
- Cyton
- iv) Schwann cell
- Hindbrain
- 21. Write the reaction for photosynthesis?
- 22. Calculate the gram molecular mass of the following: i) H,C

Part - III

III. Answer any 7 questions. (Q.No.32 is compulsory)

- 23. Differentiate mass and weight.
- 24. Give the application of universal law of gravitation.
- 25. Find the percentage of nitrogen in ammonia.
- 26. How is the ore concentrated by froth floatation process?
- 27. Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose.
- 28. List out the parasitic adaptations in leech.
- 29. How are arteries and veins structurally different from one another?
- 30. Explain the WBC with diagram.
- 31. With a neat labelled diagram, explain the structure of a neuron.
- 32. A beam of light passing through a diverging lens of focal length 0.3 m appear to be focused at a distance 0.2 m behind the lens. Find the position of the object.

IV. Answer all the questions. (Draw diagrams wherever necessary).

3x7=21

State and prove the law of conservation of linear momentum. 33. a)

(OR)

- Differentiate the eye defects: Myopia and Hypermetropia bì
- Derive the relationship between Relative molecular mass and Vapour density. 34. a) (OR)
 - Explain the male reproductive system of rabbit with a labelled diagram.
- Differentiate the following: 35. a)
 - Monocot root and Dicot root
 - Aerobic and Anaerobic respiration (OR)
 - What is transpiration? Give the importance of transpiration.